
LAUREL COUNTY

(Laurel County Water Service Area Map)

- Estimated 1999 population of 51,500--90% on public water
- Estimated 2020 population of 64,600--93% on public water
- 840 miles of water lines, with plans for 255 additional miles
- Estimated funding needs for public water 2000-2005--\$7,866,000
- Estimated funding needs for public water 2006-2020-\$17,377,000

Laurel County had an estimated population of 51,501 (19,823 households) in 1999 with a projected population of 64,598 (26,437 households) in 2020. Public water is provided to about 90 percent of the county's residents. In areas of the county not served by public water, about 90 percent of the households rely on private domestic wells and 10 percent of the households rely on other sources. About 755 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
LAUREL								-
Wood Creek	27	130	1,350				500	1,850
East Laurel W/D				686				686
West Laurel W/A	12	111	600				1,100	1,700
Laurel Co. W/D #2	2	20	60			3,570		3,630
London Utility Commission								-
Total	41	261	2,010	686		3,570	1,600	7,866

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
LAUREL								-
Wood Creek	41	158	2,050				600	2,650
East Laurel	102	94	5,000				1,500	6,500
West Laurel	50	135	2,500				600	3,100
Laurel Co. W/D #2	22	105	1,300				300	1,600
London Utility Comm.				2,767			760	3,527
Total	215	492	10,850	2,767			3,760	17,377

PUBLIC WATER SYSTEMS

Laurel County has 5 public or sem-public water systems: 5 community systems--1 municipal, London Utility Commission; 3 water districts, Wood Creek Water District, Laurel Water

WATER SERVICE AREAS

LAUREL COUNTY

Kentucky

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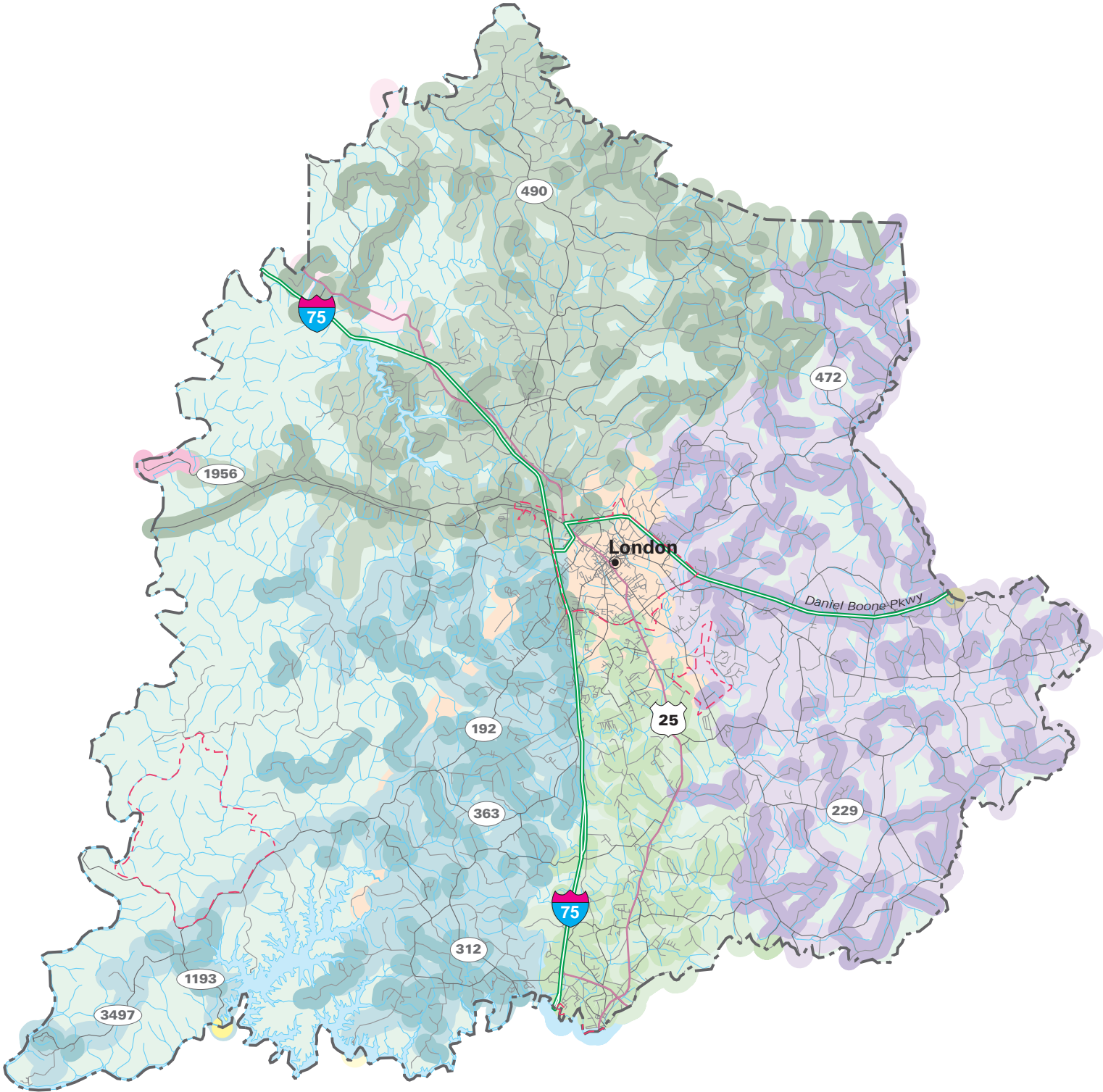
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WATER SERVICE STATUS BY OWNER		
EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		WOOD CREEK WATER DISTRICT
		WEST LAUREL WATER ASSOCIATION INCORPORATED
		ROCKCASTLE COUNTY WATER ASSOCIATION
		MANCHESTER WATER WORKS
		LONDON UTILITY COMMISSION
		LAUREL COUNTY WATER DISTRICT #2
		EAST LAUREL WATER DISTRICT
		CUMBERLAND FALLS HIGHWAY WATER DISTRICT
		CORBIN UTILITIES COMMISSION
		BARBOURVILLE WATER & ELECTRIC

District #2, East Laurel Water District; 1 water association, West Laurel Water Association-- and 1 non-community system. The county is also served by the Corbin Utilities Commission.

LONDON UTILITY COMMISSION

PWSID: 0630255
System Type: COMMUNITY
Owner Type: WATER DISTRICT
Surface Source: CITY OF LONDON RESERVOIR
Purchase Source: LAUREL COUNTY WATER DISTRICT II
Well Source:
Sells Water to: LONDON UTILITY COMMISSION
Treatment Plant Capacity (MGD): 3.00
Percent Daily Average Production: 62.00
Total Tank Storage Capacity (gallons): 2,420,000.00
Total Service Connections: 3,593.00
Number of Employees: 28.00
Treatment Operator Class: 2D
Distribution Operator Class: 4A
Customer Rate for 1,000 Gallons: 4.30
O/M costs 1997: Not available
O/M costs per Service Connection: Not available
Net Revenue 1997: Not available
Total Water Produced 1997 (gallons): Not available
Water Sold 1997 (gallons): Not available
Unaccounted-for Water 1997 (%): Not available

The London Utility Commission currently withdraws water from the Laurel River Lake, and the City of London owns a small reservoir. According to the Laurel County Water Supply Plan, this supply should be adequate until the year 2020. This system currently sells to 2,904 residential customers, 683 commercial customers and six industrial customers, as well as to Laurel Water District # 2. The London Utility Commission is permitted to withdraw 2.3 million gallons per day from Laurel River Lake. The water treatment plant has a capacity of 3.0 million gallons per day. The plan is operating at 59% capacity, producing an average of 1.77 million gallons per day. The London Utility Commission has five storage tanks and one clear well for a total system storage capacity of 2.416 million gallons. The London Utility Commission currently does not withdraw water from the water reservoir, which has a capacity of 576,000 gallons per day. The current base rate for London Utility Commission is \$6.88 for the first 2,000 gallons and \$10.32 per 2,000 outside the city limits.

LAUREL COUNTY WATER DISTRICT #2

PWSID: 0630238
System Type: COMMUNITY
Owner Type: WATER DISTRICT
Surface Source: DORTHA E LAKE
Purchase Source:
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD): 1.44
Percent Daily Average Production: 79.00
Total Tank Storage Capacity (gallons): 2,350,000.00
Total Service Connections: 4,366.00
Number of Employees: 16.00
Treatment Operator Class: 2D
Distribution Operator Class: 3A
Customer Rate for 1,000 Gallons: 3.14
O/M costs 1997: 733,690.00
O/M costs per Service Connection: 169.09
Net Revenue 1997: 52,428.00
Total Water Produced 1997 (gallons): 333,509,800.00
Water Sold 1997 (gallons): 313,465,000.00
Unaccounted-for Water 1997 (%): 12.55

Laurel Water District #2 can withdraw 1.44 million gallons per day from Lake Dorthae, which has a capacity of 3.0 million gallons per day. According to the Laurel County Water Supply Plan, this supply is adequate. This system has a treatment plant with a capacity of 1.44 million gallons per day, and produces .999 million gallons per day or 69% of capacity. Laurel Water District # 2 also purchases 65,000 gallons per day from the London Utility Commission. The system has five storage tanks and one clear well, totaling 2.35 million gallons storage. Laurel Water District # 2 serves 3,854 customers in Laurel County and 512 customers in Knox County (total of 4,366 customers). There are 4,068 residential customers, 298 commercial customers and one industrial customer on the system.

WOOD CREEK WATER DISTRICT

PWSID: 0630477
System Type: COMMUNITY
Owner Type: WATER DISTRICT
Surface Source: WOOD CREEK
Purchase Source: EAST LAUREL WATER DISTRICT
Well Source:
Sells Water to: WOOD CREEK WATER DISTRICT
Treatment Plant Capacity (MGD): 4.32
Percent Daily Average Production: 67.00
Total Tank Storage Capacity (gallons): 1,050,000.00
Total Service Connections: 4,142.00
Number of Employees: 30.00

Treatment Operator Class:	2D
Distribution Operator Class:.....	4A
Customer Rate for 1,000 Gallons:.....	3.58
O/M costs 1997:.....	1,258,791.00
O/M costs per Service Connection:	303.91
Net Revenue 1997:	269,394.00
Total Water Produced 1997 (gallons):.....	909,769,000.00
Water Sold 1997 (gallons):.....	766,412,000.00
Unaccounted-for Water 1997 (%):	7.45

Wood Creek Water District can withdraw 3.5 million gallons per day from Wood Creek Lake, which has a capacity of 12.0 million gallons per day. According to the Laurel County Water Supply Plan, their supply is adequate. They only withdraw 2.5 million gallons per day. Wood Creek Water District serves 4,077 customers in Laurel County and 65 customers in Jackson County. There are 3,915 residential, 224 commercial and three other customers currently on this system. The water treatment plant has a capacity of 4.32 MDG, but only produces 1.64 million gallons per day, or 38% of capacity. The system has four storage tanks totaling 1.05 million gallons. Wood Creek Water District sells water to East Laurel Water District and West Laurel Water Association.

EAST LAUREL WATER DISTRICT

PWSID:	0630797
System Type:.....	COMMUNITY
Owner Type:	WATER DISTRICT
Surface Source:	
Purchase Source:	WOOD CREEK WATER DISTRICT
Well Source:	
Sells Water to:	HIMA SIBERT WATER DISTRICT
Treatment Plant Capacity (MGD):.....	0.00
Percent Daily Average Production:.....	0.00
Total Tank Storage Capacity (gallons):	1,100,000.00
Total Service Connections:	3,461.00
Number of Employees:.....	0.00
Treatment Operator Class:	2D
Distribution Operator Class:	
Customer Rate for 1,000 Gallons:.....	4.42
O/M costs 1997:.....	669,652.00
O/M costs per Service Connection:	193.49
Net Revenue 1997:	43,630.00
Total Water Produced 1997 (gallons):.....	0.00
Water Sold 1997 (gallons):.....	208,678,700.00
Unaccounted-for Water 1997 (%):	11.12

East Laurel Water District buys finished water from Wood Creek Water District. East Laurel Water District has four tanks totaling 1.1 million gallons of storage. East Laurel Water

District sells water to Hima-Sibert Water District in Clay County. This system covers parts of Laurel and Clay Counties. There are 3,393 customers in Laurel County and 68 in Clay County. East Laurel Water District has 3,360 residential customers, 100 commercial customers, and one other customer. The system does not produce any water.

WEST LAUREL WATER ASSOCIATION INCORPORATED

PWSID: 0630451
System Type: COMMUNITY
Owner Type: WATER ASSOCIATION
Surface Source:
Purchase Source: WOOD CREEK WATER DISTRICT
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD): 0.00
Percent Daily Average Production: 0.00
Total Tank Storage Capacity (gallons): 200,000.00
Total Service Connections: 3,642.00
Number of Employees: 0.00
Treatment Operator Class: 2D
Distribution Operator Class:
Customer Rate for 1,000 Gallons: 4.38
O/M costs 1997: 694,648.00
O/M costs per Service Connection: 190.73
Net Revenue 1997: 71,269.00
Total Water Produced 1997 (gallons): 0.00
Water Sold 1997 (gallons): 213,675,300.00
Unaccounted-for Water 1997 (%): 10.08

The West Laurel Water Association buys finished water from Wood Creek Water District. This system has a total of 600,000 gallons of storage in three water tanks. West Laurel Water Association has 3,584 residential customers, 57 commercial customers, and one other customer.

OTHER SYSTEMS

CURRY OIL COMPANY/BITTERSWEET SHELL

Curry Oil Company/Bittersweet Shell is located in Laurel County. The system serves a population of 15 and has 3 service connections. The private, transient, non-community system water source is wells.

PRIVATE DOMESTIC SYSTEMS

About 4,970 people in Laurel County rely on private domestic water supplies: about 4,470 on wells, and 500 on other sources.

Some of the drilled wells in valley bottoms and a few wells on hillsides and ridges in the eastern third and northwestern quarter of Laurel County are adequate for domestic supply. In the rest of the county more than three-quarters of the drilled wells in valleys and most of the wells on hillsides and about half the wells on ridges are adequate for a domestic supply. This area also has the ability for deep penetrating wells with greater than 500 feet of sandstone to yield enough water for small municipal or industrial supplies.

Water obtained from most wells in this area is soft or moderately hard and contains noticeable amounts of iron. Only occasionally is salty water found in drilled wells in this area.

A few springs supply sufficient quantities of water for domestic use. Almost all springs yield less than 5gpm.
